

Section 7

1998 Alcohol and Other Drug-Related Crashes, Injury Crashes and Fatal Crashes

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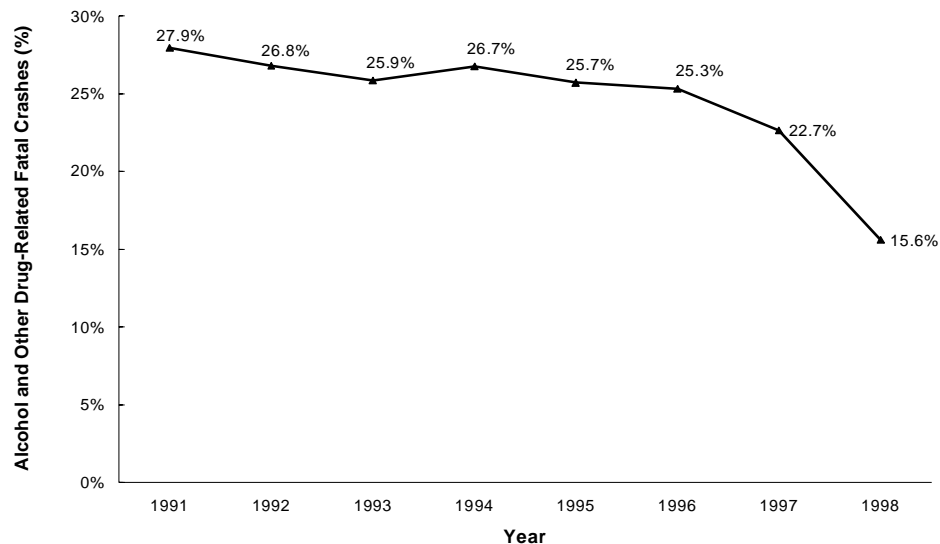
1991-1998 Alcohol and Other Drug-Related Fatal Crashes and Fatalities

For the past eight years, the percentage of alcohol and other drug-related fatal motor vehicle crashes and fatalities has been slowly decreasing from a high of almost 30% to a low of 16%. In 1998, the percentage dropped to an all time low of 16% (Table 7.01). In fact, in 1998 there was nearly a 31% decrease in fatal alcohol and other drug-related crashes and a 44% decrease in alcohol and other drug-related crash fatalities from the previous year. This reduction in alcohol and other drug-related crashes may be due to several factors including, increased DUI legislation and public education campaigns. In addition, there was a decrease in frequency of alcohol and other drug testing conducted by law enforcement officers in 1998; of the 478 drivers involved in fatal crashes, 150 (31.4%) were not tested for alcohol or other drugs, this is almost a 10% increase from 1997.

Table 7.01 Alcohol and Other Drug-Related (A/D) Fatal Crashes and Fatalities, 1991 - 1998

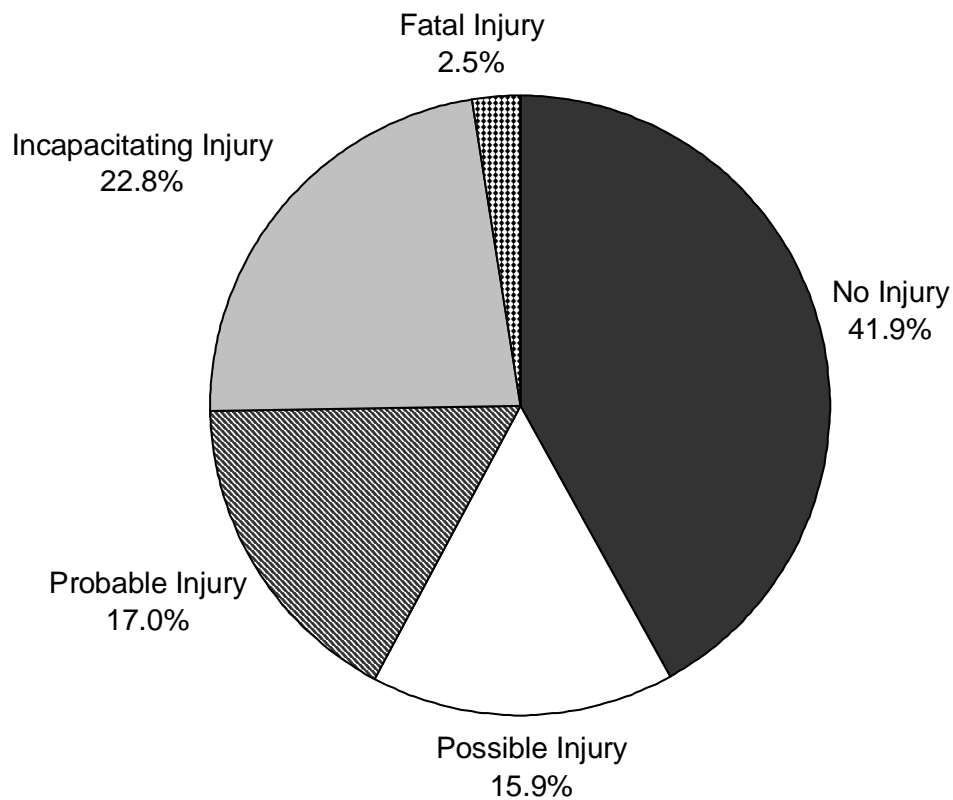
Year	Fatal Crashes			Fatalities		
	Total Number	Number A/D	Percentage A/D	Total Number	Number A/D	Percentage A/D
1991	229	64	27.9%	270	76	28.1%
1992	235	63	26.8%	269	69	25.7%
1993	263	68	25.9%	303	74	24.4%
1994	303	81	26.7%	343	94	27.4%
1995	284	73	25.7%	325	84	25.8%
1996	292	74	25.3%	328	86	26.2%
1997	309	70	22.7%	366	88	24.0%
1998	308	48	15.6%	350	49	14.0%

Figure 7.01 Alcohol and Other Drug-Related Fatal Crashes, 1991 - 1998



1998 Alcohol and Other Drug-Related Crash Severity

Figure 7.02 Severity of Alcohol and Other Drug-Related Crashes as Reported by Police, 1998 (n=1,909)



Over half (58%) of alcohol and other drug-related crashes resulted in at least one injury compared to 37% of all motor vehicle crashes (Figure 7.02). Three percent (3%) of the alcohol and drug-related crashes resulted in a fatality compared to 1% of all motor vehicle crashes.

Table 7.02 shows the number of alcohol and other drug-related crashes by county. The leading counties for alcohol and other drug-related crashes per miles traveled were Duchesne, Daggett, and Weber. Duchesne, Daggett, and Wayne had the highest rates for alcohol and other drug-related injury crashes per miles traveled. The highest rates for alcohol and other drug-related fatal crashes per miles traveled were in Wayne, Kane, and Uintah counties.

1998 Alcohol and Other Drug-Related Crashes by County

Table 7.02 Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes by County, 1998

County	A/D Crashes			A/D Injury Crashes			A/D Fatal Crashes		
	#	Rate per 10,000 Population	Rate per 100 MVMT	#	Rate per 10,000 Population	Rate per 100 MVMT	#	Rate per 10,000 Population	Rate per 100 MVMT
Beaver	11	17.30	5.48	5	7.86	2.49	1	1.57	0.50
Box Elder	31	7.50	3.61	18	4.36	2.10	0	0.00	0.00
Cache	50	5.54	6.75	31	3.43	4.18	1	0.11	0.13
Carbon	26	11.74	7.74	12	5.42	3.57	2	0.90	0.60
Daggett	3	36.01	13.28	2	24.01	8.85	0	0.00	0.00
Davis	85	3.73	4.34	37	1.62	1.89	1	0.04	0.05
Duchesne	31	21.73	17.02	19	13.32	10.43	1	0.70	0.55
Emery	16	14.47	4.88	12	10.85	3.66	1	0.90	0.31
Garfield	6	12.93	4.75	6	12.93	4.75	0	0.00	0.00
Grand	26	26.12	9.98	11	11.05	4.22	1	1.00	0.38
Iron	34	10.67	6.36	19	5.96	3.56	1	0.31	0.19
Juab	14	17.76	4.38	12	15.22	3.76	0	0.00	0.00
Kane	11	15.48	9.12	5	7.04	4.14	2	2.81	1.66
Millard	13	10.39	3.27	10	7.99	2.51	0	0.00	0.00
Morgan	6	8.75	5.28	5	7.29	4.40	0	0.00	0.00
Piute	3	18.55	9.86	2	12.37	6.57	0	0.00	0.00
Rich	3	16.12	6.70	3	16.12	6.70	0	0.00	0.00
Salt Lake	845	9.94	11.95	471	5.54	6.66	10	0.12	0.14
San Juan	16	12.00	5.91	10	7.50	3.69	1	0.75	0.37
Sanpete	21	9.84	9.48	10	4.68	4.52	1	0.47	0.45
Sevier	25	13.26	7.06	14	7.43	3.95	1	0.53	0.28
Summit	45	17.59	7.88	17	6.65	2.98	0	0.00	0.00
Tooele	64	18.78	10.17	41	12.03	6.52	4	1.17	0.64
Uintah	30	12.25	10.75	20	8.17	7.17	2	0.82	0.72
Utah	233	6.98	8.46	132	3.95	4.79	7	0.21	0.25
Wasatch	19	13.94	8.54	11	8.07	4.94	1	0.73	0.45
Washington	57	7.14	6.70	28	3.51	3.29	5	0.63	0.59
Wayne	4	15.87	10.76	3	11.90	8.07	1	3.97	2.69
Weber	181	9.82	12.90	96	5.21	6.84	4	0.22	0.29
Statewide	1,909	9.09	8.99	1,062	5.06	5.00	48	0.23	0.23

1998 Alcohol and Other Drug-Related Crash Times

Alcohol and other drug-related crashes and injury crashes followed the same time pattern, peaking during the late evening and early morning hours (9 p.m. to 1 a.m.). Fatal alcohol and other drug-related crashes followed a slightly different pattern; most of these crashes occurred in the evening with another peak at 1 a.m.

Table 7.04 shows the number and rate per day of alcohol and other drug-related crashes for each month. The rates remained similar from month to month. The highest percentage of alcohol and other drug-related crashes occurred in July and August for crashes, injury crashes and fatal crashes.

Table 7.03 Hour of Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, 1998

Hour	A/D Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
12 a.m.	132	6.9%	73	6.9%	2	4.2%
1 a.m.	166	8.7%	91	8.6%	5	10.4%
2 a.m.	114	6.0%	68	6.4%	0	0.0%
3 a.m.	55	2.9%	34	3.2%	0	0.0%
4 a.m.	40	2.1%	24	2.3%	0	0.0%
5 a.m.	29	1.5%	16	1.5%	0	0.0%
6 a.m.	33	1.7%	13	1.2%	2	4.2%
7 a.m.	41	2.1%	30	2.8%	1	2.1%
8 a.m.	11	0.6%	7	0.7%	0	0.0%
9 a.m.	23	1.2%	14	1.3%	1	2.1%
10 a.m.	27	1.4%	11	1.0%	1	2.1%
11 a.m.	37	1.9%	20	1.9%	2	4.2%
12 p.m.	39	2.0%	24	2.3%	2	4.2%
1 p.m.	54	2.8%	25	2.4%	4	8.3%
2 p.m.	37	1.9%	20	1.9%	1	2.1%
3 p.m.	78	4.1%	39	3.7%	1	2.1%
4 p.m.	87	4.6%	52	4.9%	0	0.0%
5 p.m.	101	5.3%	53	5.0%	2	4.2%
6 p.m.	121	6.3%	68	6.4%	3	6.3%
7 p.m.	128	6.7%	62	5.8%	4	8.3%
8 p.m.	113	5.9%	62	5.8%	4	8.3%
9 p.m.	142	7.4%	82	7.7%	3	6.3%
10 p.m.	141	7.4%	78	7.3%	7	14.6%
11 p.m.	160	8.4%	96	9.0%	3	6.3%
Grand Total	1,909	100.0%	1,062	100.0%	48	100.0%

Figure 7.03 Hour of Alcohol and Other Drug-Related (A/D) Injury Crashes and Fatal Crashes, 1998 (See Table 7.03 for values)

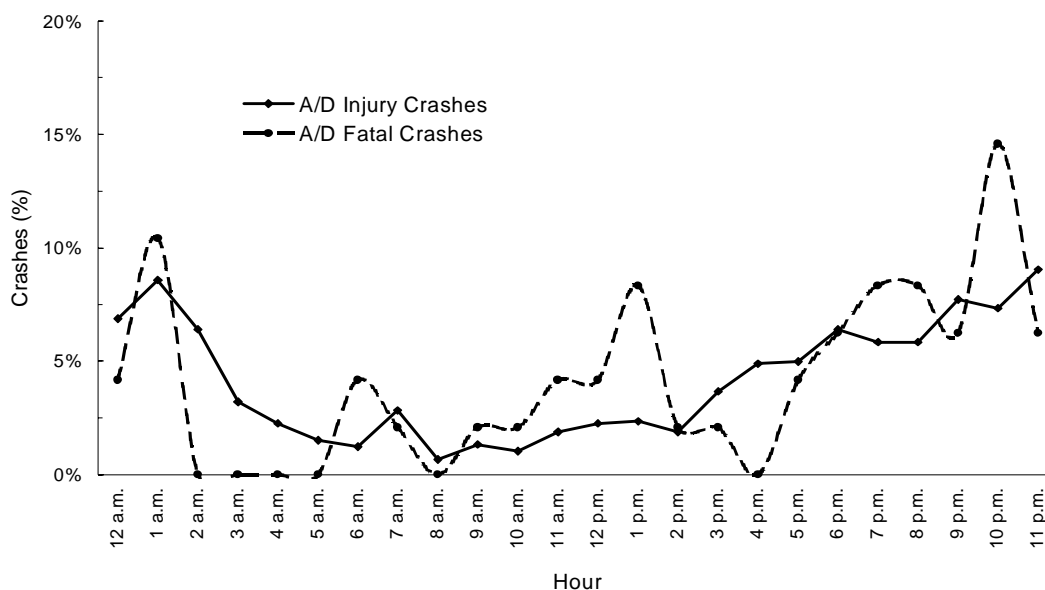
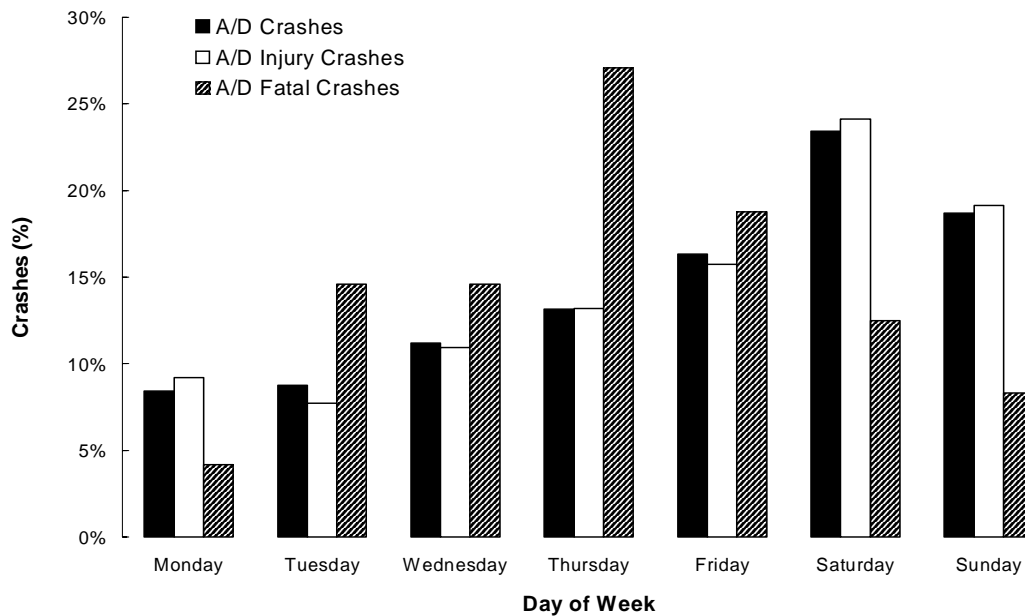


Table 7.04 Month of Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, 1998

Month	A/D Crashes Rate per Day		A/D Injury Crashes Rate per Day		A/D Fatal Crashes Rate per Day	
	#		#		#	
January	163	5.26	92	2.97	4	0.13
February	153	5.46	83	2.96	3	0.11
March	137	4.42	70	2.26	1	0.03
April	132	4.40	68	2.27	4	0.13
May	165	5.32	103	3.32	4	0.13
June	136	4.53	83	2.77	2	0.07
July	191	6.16	114	3.68	5	0.16
August	178	5.74	104	3.35	6	0.19
September	144	4.80	83	2.77	6	0.20
October	170	5.48	83	2.68	5	0.16
November	163	5.43	88	2.93	4	0.13
December	177	5.71	91	2.94	4	0.13
Grand Total	1,909	5.23	1,062	2.91	48	0.13

Over half of the alcohol and other drug-related crashes (58%) and injury crashes (59%) occurred on Friday, Saturday and Sunday. For alcohol and other drug-related fatal crashes, almost half (46%) occurred on Thursday and Friday.

Figure 7.04 Day of Week for Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, 1998 (See Table 7.05 for values)



Note: The above graph is based on percentage for the different crash categories. To read the above graph, look at one category across the groups. For example, look at only the white bars (i.e. alcohol and other drug-related injury crashes) from day to day. Do not compare the heights of the different crash categories for a specific day.

Table 7.05 Day of Week for Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, 1998

Day of Week	A/D Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
Monday	161	8.4%	98	9.2%	2	4.2%
Tuesday	167	8.7%	82	7.7%	7	14.6%
Wednesday	214	11.2%	116	10.9%	7	14.6%
Thursday	251	13.1%	140	13.2%	13	27.1%
Friday	312	16.3%	167	15.7%	9	18.8%
Saturday	447	23.4%	256	24.1%	6	12.5%
Sunday	357	18.7%	203	19.1%	4	8.3%
Grand Total	1,909	100.0%	1,062	100.0%	48	100.0%

1998 Impaired Drivers Involved in Alcohol and Other Drug-Related Crashes

Male drivers were involved in over two-thirds (80%) of alcohol and other drug-related crashes. The largest number of alcohol and other drug-related crashes and injury crashes involved male drivers in the age range of 20 to 24 years. The age group 35 to 39 years had the largest number of female drivers involved in alcohol and other drug-related crashes and injury crashes. Male drivers aged 20 to 24 years represented the greatest number of drivers involved in alcohol and other drug-related fatal crashes. Of the impaired drivers, 260 (14%) were under the age of 21 years.

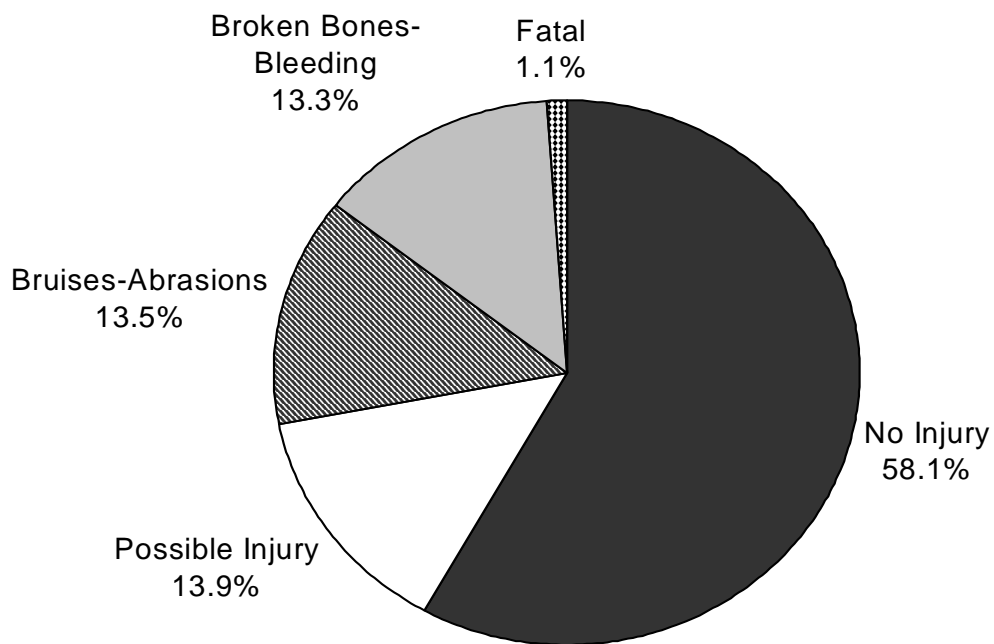
Table 7.06 Gender and Age of Impaired Drivers Involved in Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, 1998

Age	A/D Crashes				A/D Injury Crashes				A/D Fatal Crashes			
	Male Drivers		Female Drivers		Male Drivers		Female Drivers		Male Drivers		Female Drivers	
	#	%	#	%	#	%	#	%	#	%	#	%
<15	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
15 - 19	157	10.4%	45	11.4%	88	10.3%	25	11.8%	5	14.7%	1	20.0%
20 - 24	343	22.8%	54	13.7%	190	22.3%	33	15.6%	9	26.5%	1	20.0%
25 - 29	238	15.8%	45	11.4%	139	16.3%	27	12.7%	2	5.9%	1	20.0%
30 - 34	186	12.4%	51	12.9%	110	12.9%	23	10.8%	5	14.7%	0	0.0%
35 - 39	193	12.8%	77	19.5%	109	12.8%	39	18.4%	2	5.9%	0	0.0%
40 - 44	150	10.0%	60	15.2%	78	9.2%	32	15.1%	4	11.8%	2	40.0%
45 - 49	89	5.9%	29	7.4%	57	6.7%	18	8.5%	3	8.8%	0	0.0%
50 - 54	49	3.3%	14	3.6%	26	3.1%	5	2.4%	1	2.9%	0	0.0%
55 - 59	27	1.8%	10	2.5%	15	1.8%	5	2.4%	1	2.9%	0	0.0%
60 - 64	20	1.3%	2	0.5%	11	1.3%	0	0.0%	0	0.0%	0	0.0%
65 - 69	9	0.6%	3	0.8%	2	0.2%	2	0.9%	0	0.0%	0	0.0%
70 - 74	10	0.7%	0	0.0%	10	1.2%	0	0.0%	0	0.0%	0	0.0%
75 - 79	6	0.4%	0	0.0%	2	0.2%	0	0.0%	0	0.0%	0	0.0%
80 - 84	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
85 +	3	0.2%	1	0.3%	2	0.2%	1	0.5%	1	2.9%	0	0.0%
Missing	24	1.6%	3	0.8%	12	1.4%	2	0.9%	1	2.9%	0	0.0%
Grand Total	1,504	100.0%	394	100.0%	851	100.0%	212	100.0%	34	100.0%	5	100.0%

Note: There were alcohol and other drug-related crashes that involved two impaired drivers and gender or age was missing for several of the impaired drivers. There was 8 alcohol or other drug impaired pedestrians / bicyclist involved in crashes. The information about the drivers involved in the alcohol or other drug impaired pedestrian / bicyclist crashes is not included in the above table.

1998 Alcohol and Other Drug-Related Crash Participants Injury Severity

Figure 7.05 Alcohol and Other Drug-Related Crash Participants Injury Severity as Reported by Police, 1998 (n=4,351)

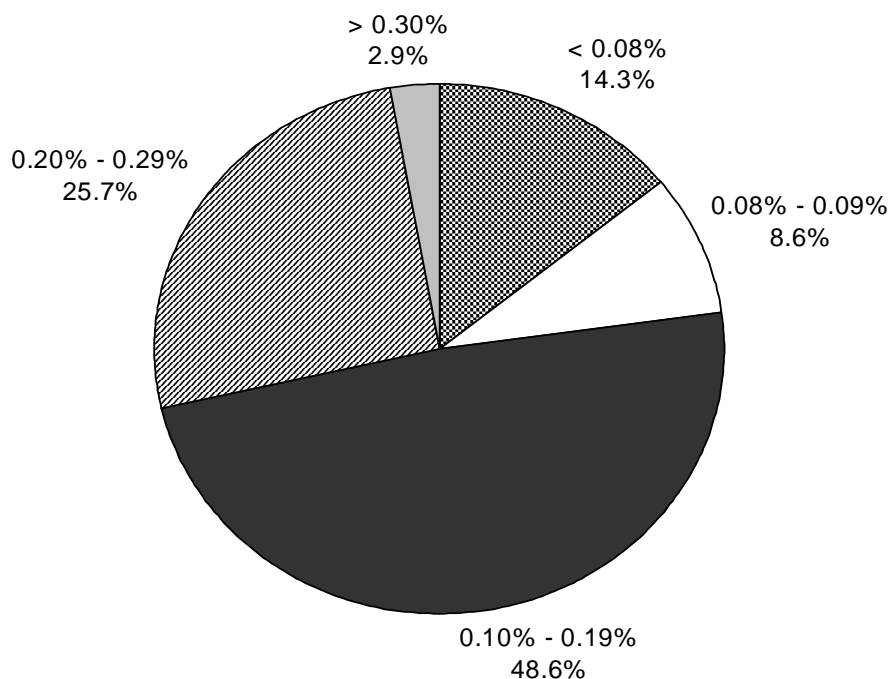


Forty-two percent (42%) of the alcohol and other drug-related crash participants sustained an injury compared to 22% for all motor vehicle crash participants. One percent (1%) of the alcohol and other drug-related crash participants died, which is higher than the 0.2% for all motor vehicle crash participants.

1998 Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes

Figure 7.06 shows the blood alcohol concentration levels of drivers involved in fatal alcohol-related crashes. Over three quarters (86%) of the drivers had blood alcohol levels at or above the legal limit of 0.08%. In fact, almost 3% of the alcohol-related fatal crashes involved a driver with a blood alcohol concentration level over 0.30%.

Figure 7.06 Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes, 1998 (n=35)



Driving Under the Influence Facts

In the last 15 years, there have been 191,200 driving under the influence (DUI) arrests in Utah. DUI is driving (or in physical control of) a vehicle on a roadway in Utah with 0.08% or more alcohol in the blood, or "unsafe" driving due to alcohol or drugs in the body. DUI is a Class B misdemeanor, punishable by \$1,000 fine, jail or community service, 90-day license suspension, an alcohol class, and alcohol problem assessment. More severe criminal actions are taken for DUI with a passenger under the age of 16 years, DUI with an injury or fatal crash, or DUI that is the second or more DUI offense within 6 years.

In 1998 there were 13,100 arrests for DUI in Utah (Table 7.07). Most of the DUI arrests (33%) occurred in Salt Lake County, followed by Davis (11%), Utah (11%) and Weber (11%) counties. The average blood alcohol concentration (BAC) of those arrested was 0.14%. The average fine for DUI convictions was \$1,100. Table 7.08 shows the number of DUI arrests by age. The largest percentage of those arrested were between the age of 25 to 36 years. Nine percent (9%) of the arrested were under the age of 21 years. For this same age group there is the "Not-a-drop" law which is zero alcohol tolerance for drivers under the age of 21 years. For teenagers between the ages of 13 to 18 years, there is the "Use-loose" law which suspends or postpones the teenagers license for 6 or more months for the purchase, attempt-to-purchase, possession or use of alcohol or other drugs.

Table 7.07 DUI Arrests by County, 1998

County	DUI Arrests	
	#	%
Salt Lake	4,323	33.0%
Davis	1,441	11.0%
Weber	1,441	11.0%
Utah	1,441	11.0%
Washington	524	4.0%
Cache	393	3.0%
Tooele	393	3.0%
Other Counties	3,144	24.0%
Statewide	13,100	100.0%

Table 7.08 DUI Arrests by Age, 1998

Ages	DUI Arrests	
	#	%
15-20	1,181	9.0%
21-24	1,604	12.2%
25-36	4,817	36.8%
37-48	3,663	28.0%
49+	1,265	9.7%
Unknown	570	4.3%
Grand Total	13,100	100.0%